


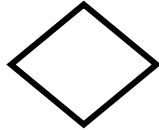
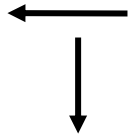




# Questions

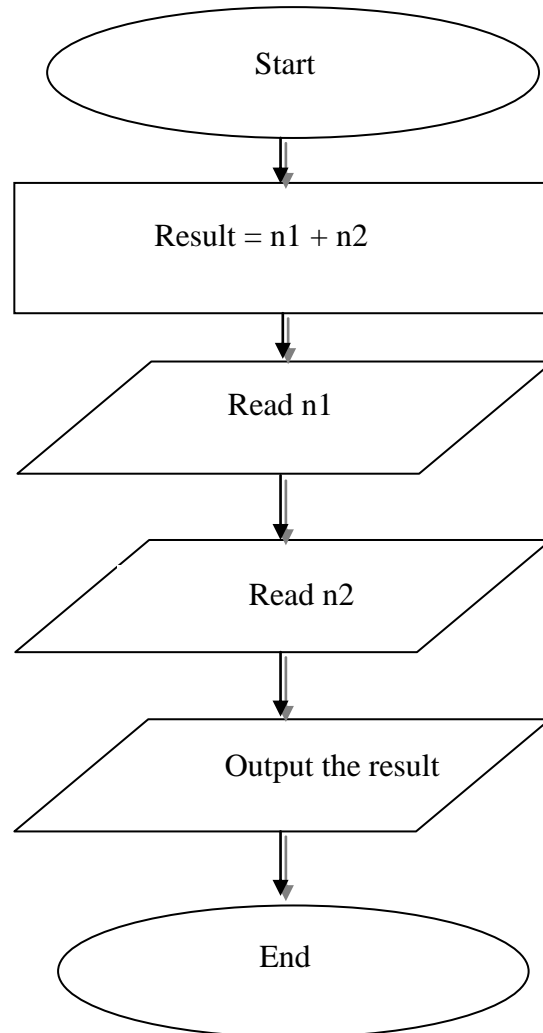
1. What is the definition of a problem?
2. How to solve problems?
3. What is meant by Algorithm?
4. What is a Program testing?
5. What is Flowchart?
6. Define Visual Basic.NET?
7. Define programming language?

8. . Complete:

Shapes					
Shapes' name	..... ....	..... ...	Process	..... ...	Flow line
Function	Start & End	Used to input & output	.....	Choose events & condition of answer Yes & No	.....



9. . Correct the flowchart which represents adding two numbers:





10. The figure show chart for calculating the area and circumference for a circle given the radius of the circle R:

$$A=3.14*R*R$$

$$C=2*3.14*R$$

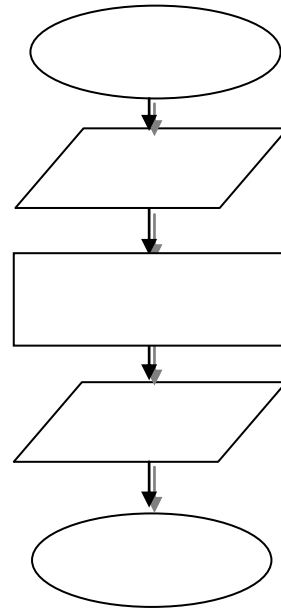
START

END

OUTPUT A

OUTPUT C

READ R



11. The figure show chart for calculating the interest value for balance with fixed interest rate.

$$\text{Interest} = \text{balance} * \text{rate}$$

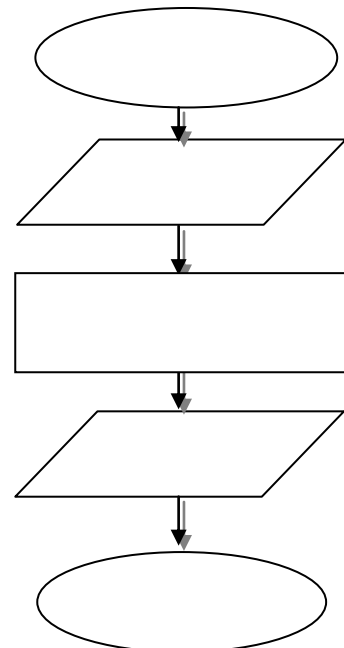
END

Read name, balance, rate

Output

Name, balance, interest

Start





12- - ***Draw a flowchart for a program that will obtain exam scores from the user. Determine whether the score is greater than or equal 50 and display the message***

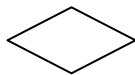
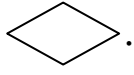
***”نجاح.”***

13-Make the following statements in order:

- (     ) Program Testing.
- (     ) Performing step-by-step instructions (Algorithm).
- (     ) Problem Definition.
- (     ) Program Documentation.
- (     ) Program design.



## 14-State whether the following statements are true (✓) or false (X) :

- 1.Flowcharts use symbols and lines with arrows to represent an Algorithm. ( )
- 2.You can use any Geometric shape to represent Algorithms when drawing flowcharts. ( )
- 3.Flowcharts can be drawn using software only and can't be drawn on paper. ( )
- 4.The flow of steps will always be from top to bottom or from left to right. ( )
- 5.The rectangle symbol represents only on processing operation. ( )
6. The flow of steps will always be from top to bottom or from left to right. ( )
- 7.The symbol  is used when a question has more than one Alternative. ( )
- 8.Two paths (lines) should come out from the diamond . ( )
9. The line with an arrow (flow line) should be from left to right or from top to bottom. ( )
10. The (Algorithm) is the first stage of Problem Solving. ( )



# Answers

1. What is the definition of a problem?

The problem is defined as the objective or the specific output that we want to attain; through a sequence of steps and activities and, specific input.

2. How to solve problems?

- Problem Definition.
- Perform Algorithm.
- Program design.
- Program Testing.
- Program documentation.

3. What is meant by Algorithm?

is defined as group of logically arranged procedures to be executed to attain a goal.(Flow Chart)

4. What is a Program testing?

Detecting errors and correct them.

5. What is Flowchart?




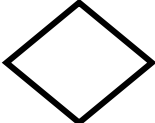
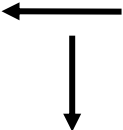
Flowchart is a diagram that uses standard graphical symbol to make the steps required to solve problem.



6- visual Basic.net is just one of the languages in visual studio.net package that includes other languages ,such as c# and j#.

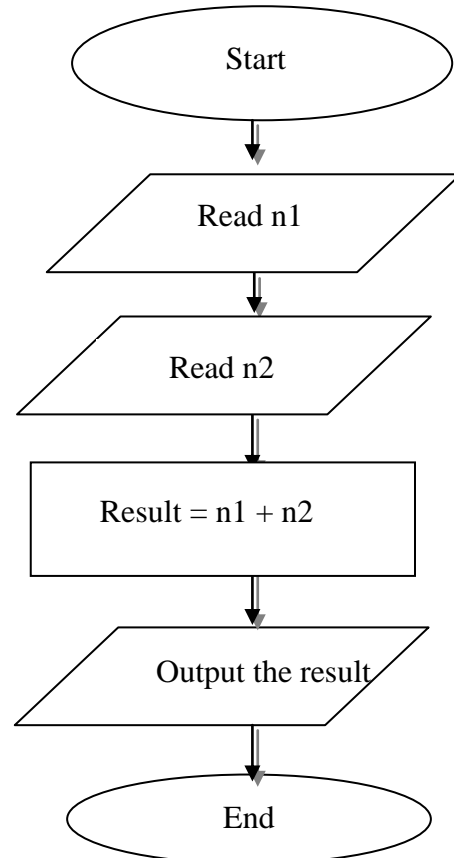
7- programming languages is is a set of rules symbols and special words you can use to write instructions to make a computer program.

8- Complete:

Shapes					
Shapes' name	<b>Terminal</b>	<b>Input / output Read / Print</b>	<b>Process</b>	<b>Decision</b>	<b>Flow line</b>
Function	<b>Start &amp; End</b>	<b>Used to input &amp; output</b>	<b>Input the arithmetic process</b>	<b>Choose events &amp; condition of answer Yes &amp; No</b>	<b>Communica tion lines of the flowchart</b>



9- Correct the flowchart which represents adding two numbers:







10- The figure show chart for calculating the area and circumference for a circle given the radius of the circle R:

$$A=3.14*R*R$$

$$C=2*3.14*R$$

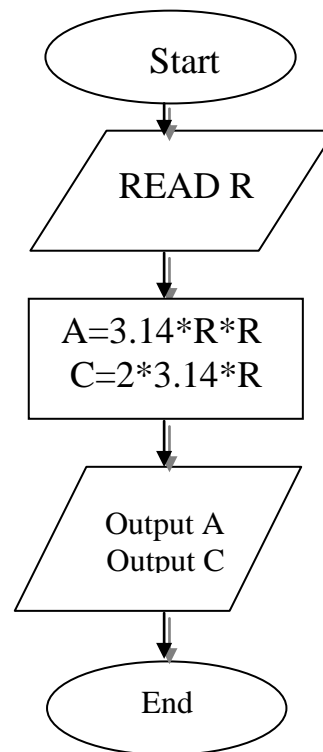
START

END

OUTPUT A

OUTPUT C

READ R



11.The figure show chart for calculating the interest value for balance with fixed interest rate.

$$\text{Interest} = \text{balance} * \text{rate}$$

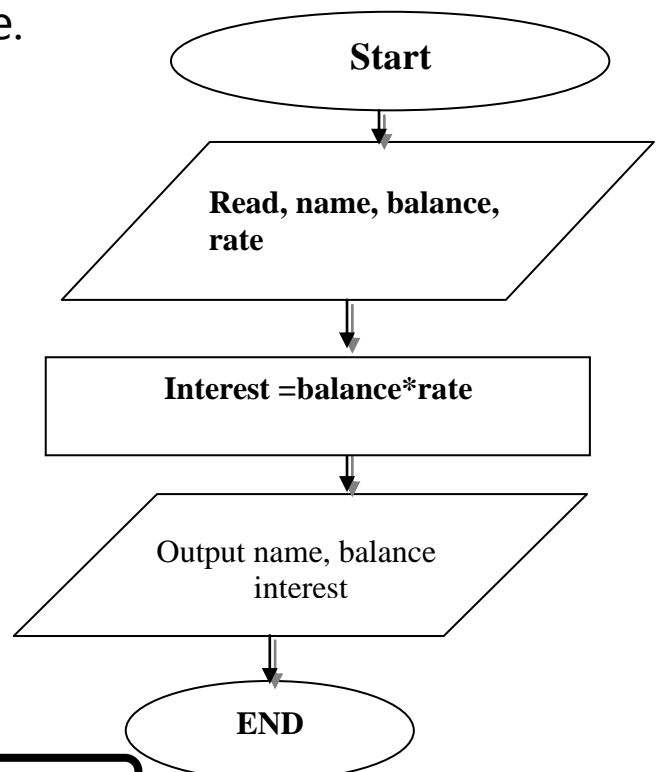
END

Read name, balance, rate

Output

Name, balance, interest

Start





12- - **Draw a flowchart for a program that will obtain exam scores from the user. Determine whether the score is greater than or equal 50 and display the message**

**”ناجح”.**

First: Define the Problem.

Output: Print the word “ناجح”.

Input: The score X.

Solution: If the value of X is greater than or equal 50; the word “ناجح” will be printed.


Algorithm	Flowchart
1-Start 2- Enter the values of X 3- If $X \geq 50$ then 3-1 Print “ ناجح ” 4- End	<pre> graph TD     Start([Start]) --&gt; EnterX[/Enter X/]     EnterX --&gt; Decision{X &gt;= 50}     Decision -- Yes --&gt; Print[/Print "ناجح"/]     Print --&gt; End([End])     Decision -- No --&gt; End                     </pre>



## 13-Make the following statements in order:

- ( 4 ) Program Testing.
- ( 2 ) Performing step-by-step instructions (Algorithm).
- ( 1 ) Problem Definition.
- ( 5 ) Program Documentation.
- ( 3 ) Program design.

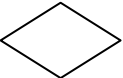
## 14-State whether the following statements are true ( √ ) or false ( X )

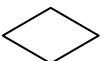
1. Flowcharts use symbols and lines with arrows to represent an Algorithm. ( √ )
2. You can use any Geometric shape to represent Algorithms when drawing flowcharts. ( X )
3. Flowcharts can be drawn using software only and can't be drawn on paper. ( X )
4. The symbol  is used to represent both the start and the end. (√ )
5. The rectangle symbol represents only on processing operation. ( X )

## Computer Net Revision



6.The flow of steps will always be from top to bottom or from left to right. ( √ )

7.The symbol  is used when a question has more than one Alternative. ( √ )

8.Two paths (lines) should come out from the diamond  . ( √ )

9.The line with an arrow (flow line) should be from left to right or from top to bottom . ( X )

10. The (Algorithm) is the first stage of Problem Solving. ( X )